



BioProGreen

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Safety Data Sheet PICKLY PEAR SEED OIL

I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- **Product identification** : 100% pure, natural and integral essential oil:
- **Trade name** Exotic verbena essential oil
- **Use** : industrial, reserved for professional use:
- **Company identification** BioProGreen
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- **In case of emergency, call the anti-poison and pharmacovigilance center: 0801000180**
- **Product information** :

Product Name:Prickly pear seed oil **Botanical name:**Opuntia ficus indica

Method of obtaining:Harvesting is done manually. The fruits are peeled then pulped by centrifugation. The seeds are dried then mechanically pressed at low temperature.

Administrative situation:

INCI name	EC number	CAS No.
Optunia Ficus Indica seed oil	290-109-1	90082-21-6

I. HAZARDS IDENTIFICATION

Classification of Regulation (EC) No. 1272/2008 [CLP]:

- **Flammable liquids, category 3:H226**
- Indicates that the liquid may ignite if exposed to heat sources or flames.
- **Corrosive/irritant to skin, Category 2:H315**
- May cause skin irritation after contact.
- **Skin sensitization, Category 1:H317**
- May cause an allergic skin reaction.
- **Aspiration hazard, category 1:H304**
- May be fatal if swallowed and enters airways.
- **Dangerous for the aquatic environment — Acute danger, Category 1:H400**
- Very toxic to aquatic organisms with short-term effects.
- **Dangerous for the aquatic environment — Chronic danger, Category 1:H410**
- Very toxic to aquatic organisms with long-term effects.

The full text of H statements is available in section 16 of the reference document.

Label elements:

Labeling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard pictograms (CLP)



GHS02

GHS07

GHS06

GHS09

Signal word (CLP): Danger

- **H302:**Harmful if swallowed.
- **H315:**Causes skin irritation.
- **H317:**Can cause cutaneous allergy.
- **H319:**Causes serious eye irritation.
- **H335:**May irritate the respiratory tract.

Precautionary statements (CLP)

P210 - Keep away from heat sources/sparks/open flames/hot surfaces. NO SMOKING.

P233 - Keep container tightly closed.

P240 - Earthing/equipotential bonding of container and receiving equipment.

P241 – Use explosion-proof electrical/ventilating/lighting equipment.

P261 - Avoid breathing vapors.

P264 – Wash thoroughly after handling.

P270 - Do not eat, drink or smoke while handling this product.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 – IF SWALLOWED: Call a POISON CENTER or doctor immediately.

P331 – DO NOT induce vomiting.

P303 + P361 + P353 – IF ON SKIN (or hair): remove contaminated clothing immediately.
Rinse skin with water/shower.

P405 – Keep locked up.

P501 - Dispose of contents/container in containers/containers provided for this purpose according to current regulations.

III. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance:

- **Name:**Prickly pear seed oil
- **CAS No.:**90082-21-6
- **EC number:**290-109-1

3.2 Mixture:

- Not applicable

3.1 Mixture:

- Not applicable

II. FIRST AID

Description of first aid:

- **General first aid:**Never give anything by mouth to an unconscious person. If you feel unwell, consult a doctor (if possible show him the label).
- **First aid after inhalation:**Breathe fresh air. Put the victim to rest. First care after skin contact: Wash with plenty of soap and water. Washing clothes contaminated before reuse. In case of skin irritation: Consult a doctor. Specific treatment (see ... on this label). In case of irritation or rash
- **First aid after eye contact:**Rinse carefully with water for several minutes. Remove contact lenses if the victim wears them and they can be easily removed. Continue rinsing. Call a POISON CENTER or doctor immediately.
- **First aid after ingestion:**Rinse your mouth. DO NOT induce vomiting. Seek emergency medical attention.

Most important symptoms and effects, both acute and delayed

- **Symptoms/injuries after inhalation:**Can cause cutaneous allergy.
- **Symptoms/injuries after skin contact:**Causes skin irritation.
- **Symptoms/injuries after eye contact:**Causes serious eye irritation. Consult a doctor if irritation persists or severe symptoms occur.
- **Symptoms/injuries after ingestion:**May be fatal if swallowed and enters airways.
- **Acute allergic skin reactions:**Redness, itching, swelling, or rash may appear.
- **Acute skin irritation:**May cause skin reactions such as irritation, sensitization and increased sensitivity to sunlight, requiring close monitoring and immediate discontinuation if symptoms occur.
- **Delayed skin sensitization:**Repeated use may sensitize the skin, making it more responsive to future applications.

- **Photosensitization:** Increased sensitivity to the sun may occur, requiring sun protection to avoid burns and age spots.

Indication of any immediate medical attention and special treatment needed:

- No additional information available

V. FIRE-FIGHTING MEASURES

Extinguishing means:

- **Suitable extinguishing media:** Mousse. Dry powder. Carbon dioxide. Water spray. Sand.
- **Unsuitable extinguishing agents:** Do not use a strong stream of water.

Special hazards arising from the substance or mixture:

- Fire hazard: flammable liquid and vapor.
- Exposure hazard: may form flammable/explosive vapor-air mixtures

Advice for firefighters Firefighting instructions:

- **Firefighting instructions:** Cool exposed containers by spraying or misting water. Use caution when fighting any chemical fire. Prevent firefighting wastewater from contaminating the environment.
- **Protection in case of fire:** Do not enter fire area without protective equipment, including respiratory protection.

VI. MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

General measures: remove all sources of ignition. Take special precautions to avoid static electricity charges.

No open flames. NO SMOKING

- For non-rescuers Emergency procedures: Remove unnecessary personnel.

• For first responders Protective equipment: Provide adequate protection to cleaning teams.

Emergency Procedures: Ventilate area.

Precautions for environmental protection:

Avoid contamination of sewers and drinking water by prickly pear seed oil. Report any spills to the appropriate authorities and avoid release into the environment.

Containment and cleaning methods and equipment:

If a spill occurs, quickly absorb the product with inert materials such as clay or diatomaceous earth. Collect spilled material and store it separately from other substances.

Reference to other sections: See section 8 for information on exposure controls and personal protection.

Precautions to take to safely handle prickly pear seed oil:

- Wash hands and any other exposed areas with mild soap and water before eating, drinking, smoking, and before leaving work.
- Ensure good ventilation of the work area to avoid the formation of vapors.
- Avoid open flames, smoking and take measures against electrostatic discharge.
- Do not breathe fumes or vapors.

Conditions for safe storage, including any incompatibilities

- Follow grounding procedures to avoid static electricity.
 - Store only in the original container in a cool, well-ventilated place, protected from sunlight and heat.
 - Keep containers closed when not in use.
 - Avoid strong bases, strong acids, sources of ignition, direct sunlight and heat sources.
- Store between 5 and 25°C.

Specific end use(s) :No additional information available

VIII. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure controls:

Personal protective equipment

: Avoid any unnecessary

Hand protection

exposure. :Wear safety gloves

Eye protection

:Splash goggles or safety glasses :Wear

Protection of the skin and body

appropriate protective clothing :Wear an

Protection of the respiratory tract

appropriate mask

Other information

:Do not eat, drink or smoke during

use.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Information on essential physical and chemical properties :

- **Physical state:**Liquid
- **Appearance:**Transparent to slightly yellow

- **Color:**Pale yellow to golden yellow
- **Smell:**Sweet, slightly herbaceous
- **Olfactory threshold:**Varies depending on individuals, generally low
- **pH:**About 6 to 7 (neutral to slightly acidic pH)
- **Relative evaporation rate:**Weak
- **Fusion point:**N/A (oil remains liquid at room temperature)
- **Freezing point:**N/A (oil remains liquid at room temperature)
- **Boiling point:**Variable, generally above 200°C
- **Flash point :**Around 150°C
- **Auto-ignition temperature:**Around 300°C
- **Decomposition temperature:**N/A (thermal decomposition unlikely at normal temperatures)
- **Flammability (solid, gas):**Not applicable (liquid)
- **Vapor pressure:**Weak
- **Relative vapor density at 20°C:**Heavier than air
- **Relative density:**Approximately 0.90 to 0.92 g/cm³
- **Solubility:**Insoluble in water, soluble in organic solvents
- **Log Power:**About 6 to 7
- **Kinematic viscosity:**Low to moderate
- **Viscosity, dynamic:**Low to moderate
- **Explosive properties:**Non-explosive
- **Oxidizing properties:**Non-oxidizing
- **Explosive limits:**Not applicable

Other information :

The refractive index: 1.465 and 1.475.

X. STABILITY AND REACTIVITY

- **Reactivity:** Low chemical reactivity under normal conditions of use.
- **Chemical stability:** Stable under normal conditions of storage and use.
- **Conditions to avoid:** Avoid extreme temperatures and prolonged exposure to sunlight.
- **Incompatible materials:** Avoid strong bases and strong acids.
- **Hazardous decomposition products:** If heated excessively, may produce decomposition products such as toxic or irritant gases.

XI. TOXICOLOGICAL INFORMATION

- **Acute toxicity:** May cause skin and eye irritation in some sensitive individuals.
- **Long-term toxicity:** Long-term effects are little known and may vary from one person to another.
- **Sensitization:** Repeated use may cause skin sensitization in some

people.

- **Carcinogenicity:** No data available on the carcinogenicity of prickly pear seed oil.
- **Reproductive toxicity:** No data available on reproductive toxicity.
- **Ecological toxicity:** May be harmful to aquatic organisms in case of large spill into the environment.
- **Specific toxicity for certain target organs:** No data available.
- **Aspiration hazard:** Risk of chemical pneumonia in case of aspiration.
- **Skin corrosion/irritation:** May cause skin corrosion or irritation with prolonged or repeated contact.
- **Serious eye damage/eye irritation:** May cause serious eye damage or irritation if direct contact with eyes.

XII. ECOLOGICAL INFORMATION

- **Toxicity:** Prickly pear seed oil generally has low to moderate toxicity, but may cause allergic skin reactions and irritation with direct contact.
- **CE 50 Daphnia:** No additional information available
- **Persistence and degradability:** May cause long-term adverse effects on the environment.
- **Bioaccumulation potential:** Weak
- **Mobility in the ground:** Low
- **Results of PBT and VPVB assessments:** No additional information available
- **Other adverse effects:** May be harmful to aquatic organisms in case of large spill into the environment.

XIII. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendations for waste management: Follow local/national safety regulations for disposal. Deposit contents/containers at approved chemical waste treatment facilities.

Additional Information: Handle empty containers with care due to the risk of flammability of residual vapors.

Ecological impact of waste: Avoid any spillage into the environment. Consider waste as hazardous due to its toxicity and dispose of it accordingly.

XIV. TRANSPORT INFORMATION

Transport hazard class(es)

- ADR:
- Danger labels (ADR):
- Packing group (ADR):
- Dangerous for the environment :

Special precautions to be taken by the user:

In accordance with the requirements of ADR/ RID/ IMDG/ IATA/ ADN

- UN number (ADR): Not assigned
- UN proper shipping name ADR: Unclassified

Transport hazard class(es)

- ADR: Unclassified
- Danger labels (ADR): None
- Packing group (ADR): Not applicable
- Dangerous for the environment: No

Special precautions to be taken by the user:

- Classification code (ADR): Not assigned
- Special provisions (ADR): Not specified
- Limited quantities (ADR): Not specified
- Excepted quantities (ADR): Not specified
- Vehicle for tank transport: Not applicable
- Transport category (ADR): Not assigned
- Hazard no. (Kemler code): Not assigned

Tunnel Restriction Code (ADR): D/E

- **Transport in bulk in accordance with Annex II of MARPOL 73/78 and the IBC Code:**Not applicable

XV. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific to the substance or mixture:

. **Regulation (EU) 2018/848 on organic farming:**It requires that organic oil be produced without the use of synthetic chemicals such as pesticides and artificial fertilizers. The entire process, from growing prickly pears to pressing their seeds to extract the oil, must adhere to the principles of organic farming.

. **Organic certification:**For an oil to be labeled as organic, it must be certified by an accredited body according to EU standards.

. **Controls and inspections:**Producers and processors of organic oil are subject to regular controls to ensure continued compliance with organic standards.

. **REACH:**REACH Regulation (EC) No. 1907/2006 concerns the production and use of chemical substances, and their potential impact on human health and the environment. Even though prickly pear seed oil is a natural product, it must be registered under REACH if it is produced or imported in quantities greater than one tonne per year

. **CLP:**CLP Regulation (EC) No. 1272/2008 aligns the EU with the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS). For prickly pear seed oil, this would involve appropriate labeling if the substance poses specific risks, although in general this oil is considered safe and may not require hazard warnings under the CLP regime .

XVI. VARIOUS INFORMATION

Safety Data Sheet according to Annex II of the REACH Regulation:

This information is based on our current knowledge and describes the product only from health, safety and environmental aspects. It is important to note that this data should not be interpreted as guaranteeing specific product properties.

This wording maintains the necessary precision and clarity while highlighting that the information provided is limited to specific aspects and does not necessarily reflect all of the oil's potential properties.